

Title (en)

A transverse gearbox for a vehicle with an in-line engine.

Title (de)

Quer angeordnetes Getriebe für ein Fahrzeug mit Reihenmotor.

Title (fr)

Boîte de vitesses transversale pour un véhicule à moteur en ligne.

Publication

**EP 0142184 A1 19850522 (EN)**

Application

**EP 84201390 A 19820921**

Priority

DE 3137805 A 19810923

Abstract (en)

The gearbox has a casing formed of a bottom part (302) and a top part (301) with a parting plane therebetween inclined downwardly from front to rear. At the front, an input, engine shaft (312) enters the casing and is coupled by bevel gears (311, 313) to the gearbox input shaft on a first shaft line (I). A change-speed gear is provided between the first shaft line and a second shaft line (II), both shaft lines lying in the parting plane. On the same, output shaft line (II) are disposed the half-shafts connected to wheels of the vehicle with a split differential between the gearbox output shaft and the half-shafts. A clutch (314) and spur gears (388, 389) at the front of the casing couple the engine shaft (312) to a power take-off shaft (390) situated below the shaft lines (I and II). The power take-off shaft extends through a hollow front wheel drive shaft which is coupled to an output gear by a bevel gear (391).

IPC 1-7

**F16H 57/02**; **B60K 17/04**

IPC 8 full level

**B60K 17/04** (2006.01); **B60K 17/08** (2006.01); **F16H 37/04** (2006.01); **F16H 57/02** (2006.01)

CPC (source: EP US)

**B60K 17/04** (2013.01 - EP US); **B60K 17/08** (2013.01 - EP US); **F16H 37/042** (2013.01 - EP US); **Y10T 74/2186** (2015.01 - EP US)

Citation (search report)

- [X] GB 880885 A 19611025 - GETRIEBE G M B H DEUTSCHE
- [A] DE 1605923 B
- [A] FR 388181 A 19080804 - RAYMOND STERN [FR]
- [A] DE 926343 C 19550414 - RUHRSTAHL AG
- [A] CH 76506 A 19180102 - ARBENZ EUGEN [CH]
- [A] AT 90393 B 19221211 - ZAPARKA EDUARD
- [AD] CH 67048 A 19141102 - EGG KNECHT L [CH]

Cited by

GB2330341A; GB2330341B

Designated contracting state (EPC)

AT BE DE FR GB IT NL SE

DOCDB simple family (publication)

**EP 0145041 A1 19850619**; CA 1196209 A 19851105; DE 3137805 A1 19830331; DE 3272902 D1 19861002; DE 3278107 D1 19880317; DK 157126 B 19891113; DK 157126 C 19900416; DK 250889 A 19890523; DK 250889 D0 19890523; DK 423982 A 19830324; EP 0076591 A1 19830413; EP 0076591 B1 19860827; EP 0142184 A1 19850522; EP 0142184 B1 19880210; ES 515865 A0 19831101; ES 524149 A0 19840416; ES 524151 A0 19840416; ES 8400708 A1 19831101; ES 8404253 A1 19840416; ES 8404254 A1 19840416; MX 156666 A 19880922; US 4523493 A 19850618; ZA 826959 B 19840425

DOCDB simple family (application)

**EP 84201391 A 19820921**; CA 411922 A 19820922; DE 3137805 A 19810923; DE 3272902 T 19820921; DE 3278107 T 19820921; DK 250889 A 19890523; DK 423982 A 19820923; EP 82304972 A 19820921; EP 84201390 A 19820921; ES 515865 A 19820922; ES 524149 A 19830715; ES 524151 A 19830715; MX 19449082 A 19820923; US 41909182 A 19820916; ZA 826959 A 19820922